



Land Information Systems for Smart Cities
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Smart urban solutions in the UNECE region

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URBANIZATION OF THE REGIONS COVERED BY OUR PROJECT

Urban residents

- UNECE region: 73% (85% in 2015)

Main challenges created by high urbanization:

- High energy consumption
- High quantities of greenhouse gases emissions
- Overpopulation and critical living conditions for citizens
- Conversion of land and green spaces into constructions and buildings
- Mobility problems and lack of infrastructures and services
- Housing issues





WHY WE GO FOR THIS PROJECT

In 2012
UNECE
Committee
on Housing
and Land
Management
included the
«**Smart City**»
as part of its
programme
of work

- Smart cities is one of the priority topics for UNECE member states
- The smart cities concept is well developed in Western Europe and USA and not easily applicable in transition countries
- Collaboration among UNECE divisions and contribute to the project with expertise
- Big interest from municipalities, regions and private sector partners





What is a Smart City?

Definition: A Smart City is an urban area that creates sustainable economic development and high quality of life by excelling in the following dimensions:

- Urban environment
- Society
- Economic conditions

This can be done through:

- having a strong human capital
- building a solid social capital
- efficient city planning, strong housing regulation
- developing an efficient ICT infrastructure





What we want to do

UNECE SMART CITY INITIATIVE

- Promoting energy-efficient and health-friendly working and building
- Urban resilience to changes in environment and demographics
- Compact and effective city planning
- Opening of new markets for sustainable products and services
- Implementation of Smart Grid Systems
- Greening public transportation and smartly organized traffic flows
- Planning and building for an ageing society
- Integrating information and communication technologies in the urban environment





We work with...



Partners

- Housing and Land Management Unit (UNECE)
- Organization for international Economic Cooperation (OiER)
- Dubai Real Estate Institute
- Environmental Agency Austria (EAA)

Stakeholders

- National governments
- Local authorities and city councils of the six pilot cities
- Cities networks
- City planners/managers, urban architects
- Private sector/industrial players from the relevant fields
- Academia and other research institutions
- NGOs





THE MAIN OBJECTIVES OF OUR INITIATIVE

Demonstrate the conceptual and practical adaptability of “smart cities” to the socio-economic conditions of transition countries

Extend the concept of smart cities to low- and medium-income economies

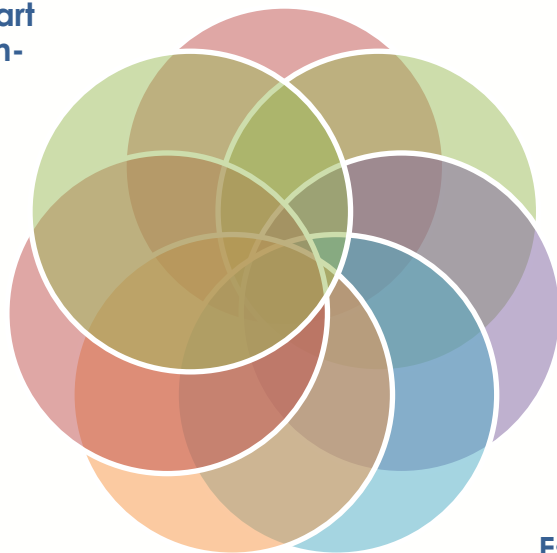
Develop new urban ecosystems which will substantially improve the inhabitants' quality of life and make the most efficient use of the resources

Promote technological, innovative and cost-effective solutions

Develop a policy on smart cities, and subsequently guidelines and recommendations on the sectors in which a rapid progress can be made

Promote exchange of best practices on sustainable urban development

Establish partnerships and cooperation between several stakeholders in Europe and Central Asia and Middle East and Northern Africa





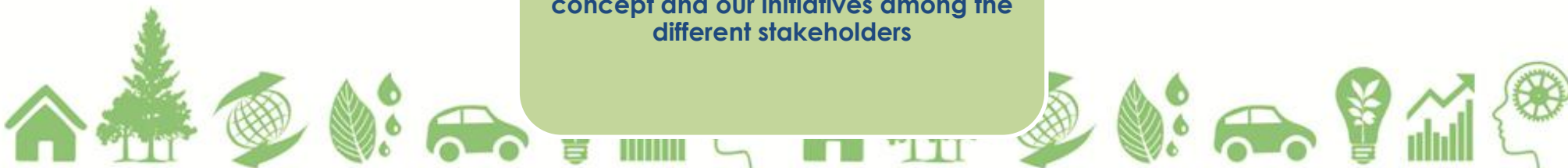
LONG-TERM IMPACTS OF THE PROJECT

Verifying the applicability of the smart city concept to medium and low-income countries

Creation of reproducible examples for cities with similar background and financial resources

Bridging collaborative relationships among the different sectors

Rising awareness about the smart city concept and our initiatives among the different stakeholders





PLANNED EVENTS IN 2014-2015

- **Workshop on *Land Information systems for smart cities*** (8-9 May 2014, Geneva); as part of Geospatial World Forum
- **Urban Future Global Conference** (18-19 November 2014, Graz)
- **Dubai Conference on smart cities** (February 2015)
- **Possible activities in countries of Eastern Europe and Central Asia**





**Thank you
for your attention**

